Baldcypress Allowable Rafter Spans
Visual Graded #2 or Better

		Sloped Length: Flat to Less than 6:12 Slope		Sloped Length: 6:12 and Greater Slope	
Size Inches	**Spacing** Inches on Center	**Dead Load: 10 psf Live Load: 20 psf Total Deflection: L/180 Live Deflection: L/240**	**Dead Load: 20 psf Live Load: 20 psf Total Deflection: L/180 Live Deflection: L/240**	**Dead Load: 10 psf Live Load: 20 psf Total Deflection: L/180 Live Deflection: L/240**	**Dead Load: 20 psf Live Load: 20 psf Total Deflection: L/180 Live Deflection: L/240**
2x6	12	13’-2”	11’-8”	14’-0”	12’-3”
	16	11’-11”	10’-7”	12’-8”	11’-2”
	24	10’-5”	9’-3”	11’-1”	9’-9”
2x8	12	17’-4”	15’-5”	18’-4”	16’-2”
	16	15’-9”	14’-0”	16’-8”	14’-9”
	24	13’-9”	12’-0”	14’-7”	12’-10”
2x10	12	22’-1”	19’-8”	23’-5”	20’-8”
	16	20’-1”	17’-10”	21’-4”	18’-9”
	24	16’-10”	14’-7”	18’-6”	15’-10”
2x12	12	26’-11”	23’-11”	28’-6”	25’-2”
	16	24’-0”	20’-9”	25’-11”	22’-6”
	24	19’-7”	17’-0”	21’-5”	18’-5”

The above information was derived from design values developed by the Southern Pine Inspection Bureau (SPIB) for Baldcypress as shown within the National Design Specification Supplement (April 2003 Addendum) published by the American Forest & Paper Association. Design values were modified in accordance with the procedures shown within the 2001 National Design Specification where the following typical conditions were assumed.

- Members are exposed to dry conditions where moisture content does not exceed 19% (C_M=1.0).
- Members are not exposed to sustained temperatures in excess of 100 degrees Fahrenheit (C_t=1.0).
- Members are laterally supported in a manner to prevent rotation and lateral displacement (C_L=1.0)
- Floor and Ceiling Joists are exposed to sustained live loads durations (C_D=1.0).
- Rafters live loads act over a period of approximately two months (C_D=1.15).
- Members are not incised (C_i=1.0).
- Size factors are in accordance with the National Design Specification Supplement.
- Members are part of a system where 3 or more joists or rafters are present and tied together via flooring , roofing or similar load distributing elements. For spacings of 24 inches on center or less, a repetitive factor of 1.15 was applied.

Baldcypress Allowable Spans
Visual Graded #2 or Better

		Floor Joists		Ceiling Joists	Rafters	
Size Inches	**Spacing** Inches on Center	**Dead Load: 10 psf Live Load: 40 psf Total Deflection: L/240 Live Deflection: L/360**	**Dead Load: 20 psf Live Load: 40 psf Total Deflection: L/240 Live Deflection: L/360**	**Dead Load: 10 psf Live Load: 20 psf Total Deflection: L/240 Live Deflection: L/360**	**Dead Load: 10 psf Live Load: 20 psf Total Deflection: L/180 Live Deflection: L/240**	**Dead Load: 20 psf Live Load: 20 psf Total Deflection: L/180 Live Deflection: L/240**
2x6	12	10’-0”	9’-6”	11’-11”	13’-2”	11’-8”
	16	9’-1”	8’-7”	10’-10”	11’-11”	10’-7”
	24	7’-10”	7’-2”	9’-6”	10’-5”	9’-3”
2x8	12	13’-2”	12’-6”	15’-9”	17’-4”	15’-5”
	16	12’-0”	11’-1”	14’-4“	15’-9”	14’-0”
	24	10’-0”	9’-1”	12’-6”	13’-9”	12’-0”
2x10	12	16’-9”	15’-8”	20’-1”	22’-1”	19’-8”
	16	14’-11”	13’-7”	18’-3”	20’-1”	17’-10”
	24	12’-2”	11’-1”	15’-8”	16’-10”	14’-7”
2x12	12	20’-0”	18’-3”	24’-5”	26’-11”	23’-11”
	16	17’-3”	15’-9”	22’-3”	24’-0”	20’-9”
	24	14’-1”	12’-10”	18’-3”	19’-7”	17’-0”

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- Rafters live loads act over a period of approximately two months (C_D=1.15).
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Baldcypress Allowable Spans
Visual Graded #2 or Better

		Floor Joists		Ceiling Joists	Rafters	
Size Inches	**Spacing** Inches on Center	**Dead Load: 10 psf Live Load: 40 psf Total Deflection: L/240 Live Deflection: L/360**	**Dead Load: 20 psf Live Load: 40 psf Total Deflection: L/240 Live Deflection: L/360**	**Dead Load: 10 psf Live Load: 20 psf Total Deflection: L/240 Live Deflection: L/360**	**Dead Load: 10 psf Live Load: 20 psf Total Deflection: L/180 Live Deflection: L/240**	**Dead Load: 20 psf Live Load: 20 psf Total Deflection: L/180 Live Deflection: L/240**
4x6	24	10'-6"	10'-0"	12'-7"	13'-10"	12'-3"
	48	7'-11"	7'-3"	10'-0"	11'-0"	9'-6"
4x8	24	13'-10"	13'-2"	16'-7"	18'-3"	16'-2"
	48	10'-5"	9'-6"	13'-2"	14'-5"	12'-6"
4x10	24	17'-8"	16'-9"	21'-2"	23'-3"	20'-8"
	48	12'-10"	11'-8"	16'-6"	12'-9"	15'-4"
4x12	24	21'-6"	20'-5"	25'-9"	28'-4"	25'-2"
	48	14'-11"	13'-7"	19'-3"	20'-8"	17'-11"

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- Rafters live loads act over a period of approximately two months (C_D=1.15).
- Members are not incised (C_i=1.0).
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